PRO R HYPERCHARGER for YAMAHA 9463

PARTS INCLUDED

1	Pro R Hypercharger Assembly Including The Following Items:
5	Screws in Plastic Bag Including:
3	1/4”-20 X 1-5/8” Button Socket Cap Screws
2	#6-32 X 3/8” Socket Head Cap Screws
2	#6 Flat Washers—**NOT USED**
1	Dual Velocity Ring—**NOT USED**
1	Filter Cage Assembly 3-PC.
1	Hyper Filter Round
1	1100 V-Star Bracket/Manifold Hardware Kit:
1	Ribbed Rubber Hyper Duct
1	Internal Duct Support, Black Plastic
1	Steel Chrome Bracket
1	Hardware Kit Including The Following:
3	M6 Aluminum Tapered bolt Cap
3	M6 x 1.0 x 16mm Socket Head Cap Screw
1	M6 Flange Nut
1	Step (Reducer) Washer
3	1/4”-20 x 5/8” Socket Head Cap Screw
3	1/4”-20 Flange Nuts
1	12” Length of Vacuum Hose
8	M4 x 10mm Socket Head Cap Screw
1	90 Degree Elbow
2	.020” Thick Needle Shim
1	Galvanized Clamp Hook
1	Jet Kit Includes the Following Four Items:
1	125 Main jet
2	1.2 Pilot Air Bleed
1	120 Main Jet
1	122.5 Main Jet
1	Installation Instructions

Please read and understand entire instructions before starting installation.

THANK YOU FOR CHOOSING KÜRYAKYN!

IN ORDER TO PROTECT YOU AND OTHERS FROM POSSIBLE INJURY AND/OR PROPERTY DAMAGE OR LOSS, PLEASE PAY CLOSE ATTENTION TO ALL INSTRUCTIONS, WARNINGS, CAUTIONS AND ATTENTION NOTES REGARDING THE USE AND CARE OF THIS PRODUCT.

WARNING! THIS INDICATION ALERTS YOU TO THE FACT THAT IGNORING THE CONTENTS DESCRIBED HEREIN CAN RESULT IN POTENTIAL DEATH OR SERIOUS INJURY.

ATTENTION! **This indication alerts you to the fact that ignoring the contents described herein may negatively affect product performance and functionality.**

CAUTION! This indication alerts you to the fact that ignoring the contents described herein can result in potential injury or material damage.

TOOLS SUGGESTED

Set of Metric and Standard Hex Wrenches, Set of Metric Combination Wrenches, Phillips Screwdriver

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CUSTOMER SERVICE
877.370.3604 (toll free)

INSTALLATION QUESTIONS
techsupport@kuryakyn.com
or call 715.247.2983

LIMITED WARRANTY

Küryakyn warrants that any Küryakyn products sold hereunder, shall be free of defects in materials and workmanship for a period of one (1) year from the date of purchase by the consumer excepting the following provisions:

- Küryakyn shall have no obligation in the event the customer is unable to provide a receipt showing the date the customer purchased the product(s).
- The product must be properly installed, maintained and operated under normal conditions.
- Küryakyn makes no warranty, expressed or implied, with respect to any gold plated products.
- Küryakyn shall not be liable for any consequential and incidental damages, including labor and paint, resulting from failure of a Küryakyn product, failure to deliver, delay in delivery, delivery in nonconforming condition, or for any breech of contract or duty between Küryakyn and a customer.
- Küryakyn products are often intended for use in specific applications. Küryakyn makes no warranty if a Küryakyn product is used in applications other than intended.
- Küryakyn electrical products are warranted for one (1) year from the date of purchase by the consumer. L.E.D.’S contained in components of Küryakyn products will be warranted for defects in materials and workmanship for 3 years from the date of purchase where as all other components shall be warranted for one(1) year. This includes, but is not limited to; control modules, wiring, chrome & other components.
- Küryakyn makes no warranty of any kind in regard to other manufacturer¹s products distributed by Küryakyn. Küryakyn will pass on all warranties made by the manufacturer and where possible, will expedite the claim on behalf of the customer, but ultimately, responsibility for disposition of the warranty claim lies with the manufacturer.

ABOUT OUR CATALOG

For purchasing Küryakyn® products, you can receive a complete catalog free of charge. Send the Proof-of-Purchase below with your address to: Küryakyn, P.O. Box 339, Somerset, WI 54025. Please indicate either Accessories Catalog for Harley-Davidson® or GL & Metric Cruisers.

Be sure to ask your local dealer about other Küryakyn® products, the motorcycle parts and accessories designed for riders by riders.

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STRICTLY OBSERVE THE FOLLOWING GUIDELINES IN ORDER TO USE THE PRODUCT PROPERLY AND AVOID POTENTIALLY DANGEROUS ACCIDENTS.

Küryakyn

STEP 1 Read and understand all steps in the instructions before starting the installation. Park the motorcycle on a hard, level surface and turn off the ignition. Let cool.

DISCLAIMER — PLEASE READ BEFORE PROCEEDING

Any modifications to a motorcycle's exhaust or intake tract require carburetor re-jetting to achieve maximum performance and maintain drivability. If you are uncomfortable with the process of tuning your carburetor, we recommend that you bring your motorcycle to a qualified motorcycle mechanic to have this kit installed. The jets included in this kit were selected based on test results with various combinations of components that we felt would represent the majority of the customers purchasing this kit (see Addendum I). However, no two motorcycles are exactly alike. Depending on the individual case, additional jets may need to be purchased from an outside source. Küryakyn warrants the parts included in this kit to be free of defects in materials and workmanship, but makes no claim whatsoever in regard to costs associated with installation or tuning.

WARNING! YOU WILL BE WORKING AROUND THE ENGINE AND EXHAUST SYSTEM DURING INSTALLATION. ENSURE THAT THE ENGINE AND EXHAUST SYSTEM HAVE FULLY COOLED TO PREVENT INJURY.

ATTENTION! **A factory service manual may be helpful in performing this installation. Do not attempt to perform this installation if you are not confident in your ability to complete all of the steps in the procedure; consult a trained technician.**

CAUTION! The installation of any high performance exhaust system can cause a "lean" fuel/air mixture. A "lean" fuel/air mixture can cause engine overheating resulting in severe engine damage. Küryakyn recommends rejetting carbureted bikes.

NOTE: **This installation requires re-jetting of the carburetors. This is an involved procedure that we recommend be performed by a qualified service technician. If you choose to attempt this procedure yourself, refer to the carburetor removal, disassembly, reassembly, and installation procedures outlined in your V-Star service manual.**

STEP 2 Remove the driver and passenger seats from the bike. Remove the negative battery cable from the battery and tuck it out of the way to reduce the possibility of sparks.

STEP 3 Remove the two, rear tank mounting bolts. Remove the plastic tank mounting snap stud. (Push in on the center of it to release). Slide the tank back to expose the top of the engine. Make sure the tank is secured so it does not fall! You may remove the tank completely if so desired.

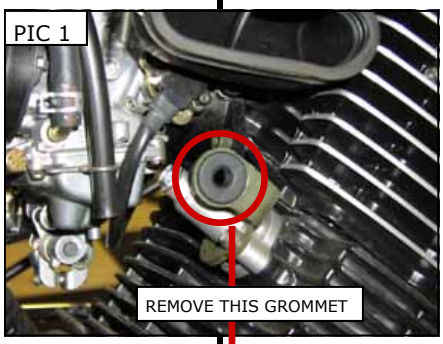
STEP 4 Remove the stock air cleaner cover, element, and backing plate. The top and rear mounts are secured with screws, the front mount "snaps" into a grommet.

STEP 5 See PIC.1 and PIC.2. Remove the grommet from the bracket.

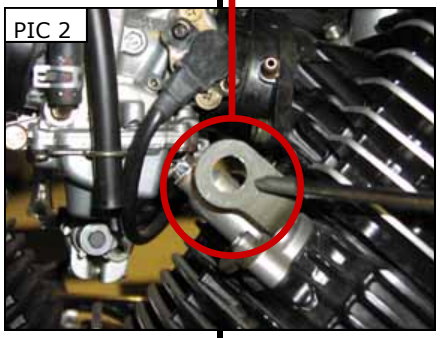
STEP 6 Placing your long handled Phillips screwdriver as shown in PIC.3, loosen the clamp on the air duct and remove the duct. Remove the clamp from the duct and set it aside, as it will be reused.

NOTE: **Now is a good time to proceed with re-jetting of the carburetors. Consult your factory service manual for this procedure. We have supplied jets to cover most common applications.**

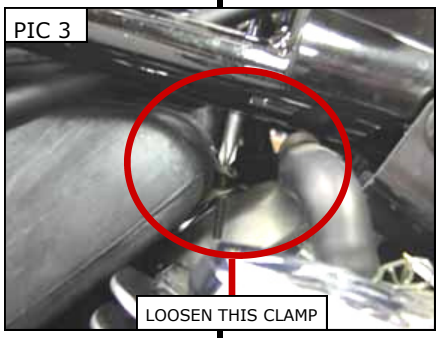
PIC 1



PIC 2



PIC 3



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Jetting Recommendations: See FIG.1 for jet locations.

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With stock exhaust or Cobra Slip-On Mufflers

- 1.2 Pilot Air Bleeds in both carbs
- One .020 shim added to raise each needle
- 122.5 Main Jet in the front cylinder's carb
- 120 Main Jet in the rear cylinder's carb
- Pilot Mixture Screw (PMS) 2 turns out from lightly bottomed

With Vance & Hines, Samson, or open "Drag" pipes

- 1.2 Pilot Air Bleeds in both carbs
- One .020 shim added to raise each needle
- 125 Main Jet in the front cylinder's carb
- 122.5 Main Jet in the rear cylinder's carb
- Pilot Mixture Screw (PMS) 2 turns out from lightly bottomed

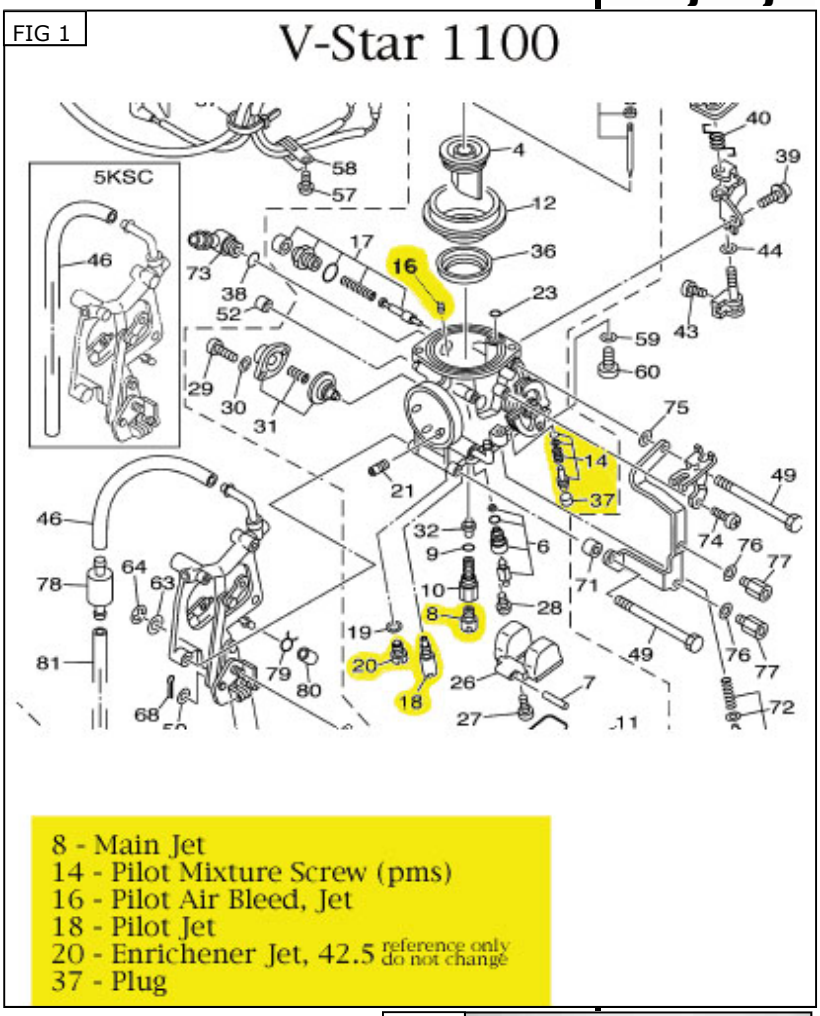
NOTES:

A) The factory installed plug covering the PMS will have to be removed in order to access the screw.

B) Because the float bowl screws are easily damage during removal, we have included 8 replacement float bowl screws with socket heads, just in case they are needed.

BE SURE TO VENT THE FLOAT BOWLS TO THE BACK OF THE HYPERCHARGER — THIS IS NECESSARY FOR BEST DRIVABILITY AND MAXIMUM PERFORMANCE!!!! (See STEP 16.)

FIG 1

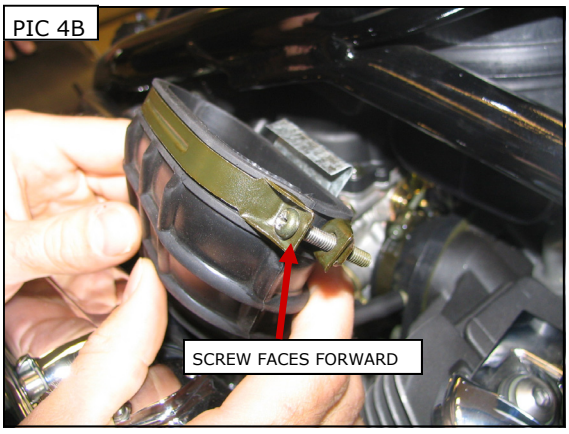


STEP 7 See PIC.4. Insert both flanges of the rubber air duct through the opening in the mounting bracket. Place the galvanized clamp hook on the duct clamp as shown in PIC.4A. You will need to flatten this hook on the clamp. Place the Stock duct clamp on the new intake duct — the clamp screw should face forward. See PIC.4B.

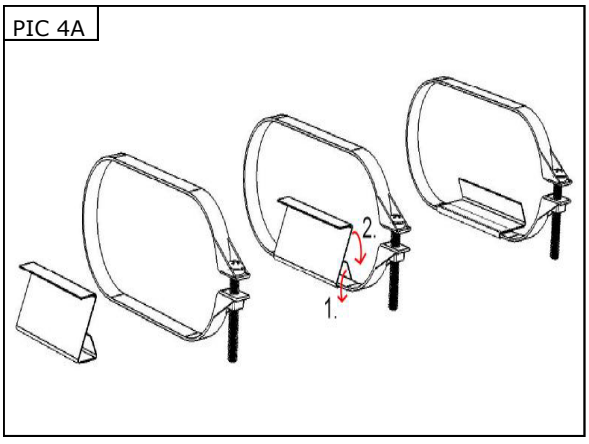
PIC 4

STEP 8 Install the mounting bracket and duct assembly using the supplied M6 x 1.25 x 15mm socket heads and tapered socket head bolt caps. The front mounting point will also use the step (reducer) washer and M6 flange nut. Make sure the intake duct is in position on the air box inlet. Tighten the bracket securely, but leave the clamp on the intake duct loose for now. See PIC.5.

PIC 4B



PIC 4A



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STEP 9 Loosen the clamps securing the stock rubber elbows to the carburetors and air box. Gently wiggle the air box to ensure that the rubber intake duct is fully seated on the air box inlet (removing the air box lid makes it much easier to see if it is on completely). Once everything is situated and comfortably in place, tighten the clamp on the rubber intake duct first and then tighten the clamps on the stock rubber elbows. Replace the air box lid.

STEP 10 Remove the front cover of the Pro-R Hypercharger.

STEP 11 Wet the radius portion of the intake duct with soapy water solution and slide the back plate of the Hypercharger into place on the intake assembly. It should be between the two rubber flanges on the intake duct.

STEP 12 Install the 5/16" Barb x 1/8" NPT Right Angle Fitting in the back of the Hypercharger.

STEP 13 Using the 1/4"–20 x 5/8" socket heads and flanged nuts, bolt the Hypercharger back half into place. See PIC.6. It is helpful to fold a portion of the radius back while performing this procedure.

STEP 14 Install the K&N filter and the Filter Cage Assembly. Replace the front cover of the Pro-R Hypercharger fastening with the supplied fasteners in the bag in the Hyper. Install the 2 small screws into the Pro R end caps without using the washers. Tighten all Screws.

STEP 15 See PIC.7. This is the vacuum nipple in the front carb. Connect the supplied vacuum hose to this nipple, and connect the remaining end to the vacuum nipple on the bottom of the Hypercharger.

STEP 16 **IMPORTANT** See PIC.8, PIC.9, and PIC.10. This is the float bowl vent hose. Connect this hose to the black right angle fitting on the back of the Hypercharger.

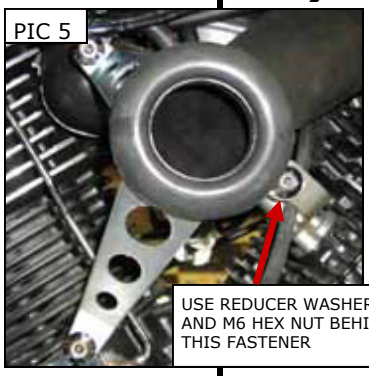
STEP 17 Replace the fuel tank and re-connect the positive battery cable, re-install seats.

STEP 18 **Double check the tightness of all related fasteners, check for hose clearance and check throttle for correct operation, making sure it returns properly, before starting the bike.**

ATTENTION! **It is the installer's responsibility to ensure that all of the fasteners (including preassembled) are tightened before operation of the motorcycle. Küryakyn will not warranty components lost due to improper installation. Periodic maintenance may be required.**

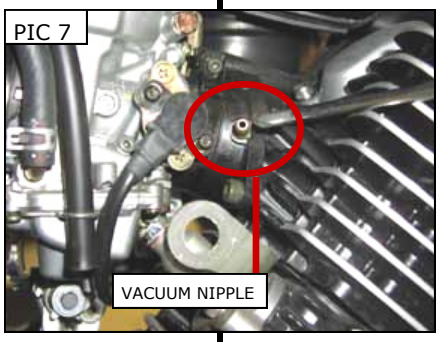
ATTENTION! **Some of our high performance air cleaners extend beyond the stock/OEM unit to achieve smoother air flow and better performance. Riding position may be affected.**

PIC 5



PIC 6

PIC 7



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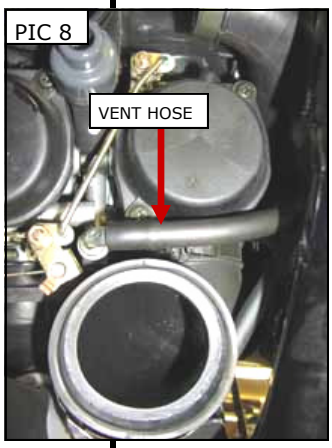
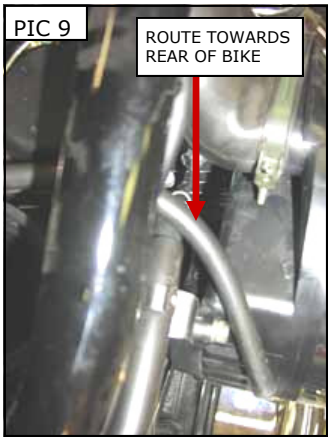


PIC 10

PIC 9



Ride On!